

BOARD OF COUNTY COMMISSIONERS
SARPY COUNTY

RESOLUTION FLOOD PLAIN DEVELOPMENT
Nebraska Department of Roads

WHEREAS, pursuant to Neb. Rev. Stat. § 23-104 (Reissue 2007), the County has the power to do all acts in relation to the concerns of the County necessary to the exercise of its corporate powers; and,

WHEREAS, pursuant to Neb. Rev. Stat. § 23-103 (Reissue 2007), the powers of the County as a body are exercised by the County Board of Commissioners (County Board); and,

WHEREAS, the County Board has the authority to adopt a Zoning Regulation, which shall have the force and effect of law pursuant to Neb. Rev. Stat. § 23-114 (Reissue 2007); and,

WHEREAS, said Zoning Regulation requires the County Board to approve applications for development permits within any Flood Plain District; and

WHEREAS, Rebecca Horner, Planning Director has reviewed the Nebraska Department of Road's application for a Flood Plain Development Permit for compliance with the Zoning Regulation on the property legally described in the attached Exhibit A; and,

WHEREAS, said application includes a no rise certificate which is in compliance with Section 30, Flood Plain District of Zoning Regulations; and,

WHEREAS, the Planning Director has made a recommendation of approval as noted in the attached Exhibit A, which Exhibit A includes the Planning Director report, the no rise certificate on the subject property, the Natural Resources District comments and the site plan of the subject property.

NOW, THEREFORE, BE IT RESOLVED BY THE SARPY COUNTY BOARD OF

COMMISSIONERS THAT this Board recognizes that the Nebraska Department of Roads has eminent domain power and as such this Board's jurisdiction over certain activities of the Nebraska Department of Roads is limited. (Witzel v. Village of Brainard, 302 N.W.2d 723, Neb 1981).

FURTHER BE IT RESOLVED THAT the Flood Plain Development Permit Application for the property legally described in the attached Exhibit A is hereby approved.

Dated this 13th day of July 2010.

Moved by Tom Richards seconded by Rich Jansen, that the above Resolution be adopted. Carried.

YEAS:

NAYS:

ABSENT:

Debra J. Houghtaling

none

none

Rich Jansen

Tom Richards

Patrick J. Thomas

ABSTAIN:

none

Debra J. Houghtaling
County Clerk



Approved as to form:

Rich Jansen
County Attorney

Memorandum

Date: July 13, 2010

To: County Board
Mark Wayne, County Administrator
Scott Bovick, Deputy County Administrator
County Attorney's office

From: Rebecca Horner, AICP, Planning Director

RE: NDOR Platte River Deer Fence

On July 8, 2010, the Nebraska Department of Roads provided supplemental information to the Papio-Missouri Natural Resources District.

The information included details about the existing and proposed fencing. As a result of the additional information the NRD no longer has comments about the project.

The staff recommendation is approval based on conformance with the regulations.

July 12, 2010

Rebecca Horner, Director
Sarpy County Planning Department
1210 Golden Gate Drive
Papillion, NE 68046



RE: Nebraska Department of Roads Platte River Deer Fence Application for Floodplain Development

Dear Ms. Horner:

The District received information regarding the proposed construction of a wildlife fence along Interstate 80 from the Platte River to Pflug Road in Sarpy County, Nebraska. According to the Flood Insurance Rate Map for Sarpy County, Panels 31153C 0145 G and 31153C 0150 G, effective December 2, 2005, a portion of the project is located in the Zone AE floodway and Zone AE flood fringe of the Platte River. The District previously provided comments on the project on February 23, 2010 and June 3, 2010.

Additional information regarding the project was provided to the District from Nebraska Department of Natural Resources on July 8, 2010. There is an existing fence, four feet in height, along the proposed fence alignment. Nebraska Department of Roads will remove the existing fence and replace it with a fence eight feet in height. No additional obstructions will be placed in the floodway. The District has no objections to this project.

If you have any questions or concerns, please contact me at 444-6222 or at llaster@papionrd.org.

Sincerely,

Lori Ann Laster, CFM
Stormwater Management Engineer

Cc: Brian Dunnigan, NDNR
Marlin Petermann, Amanda Grint, P-MRNRD

General Location of I-80 Bridge Deer Fence

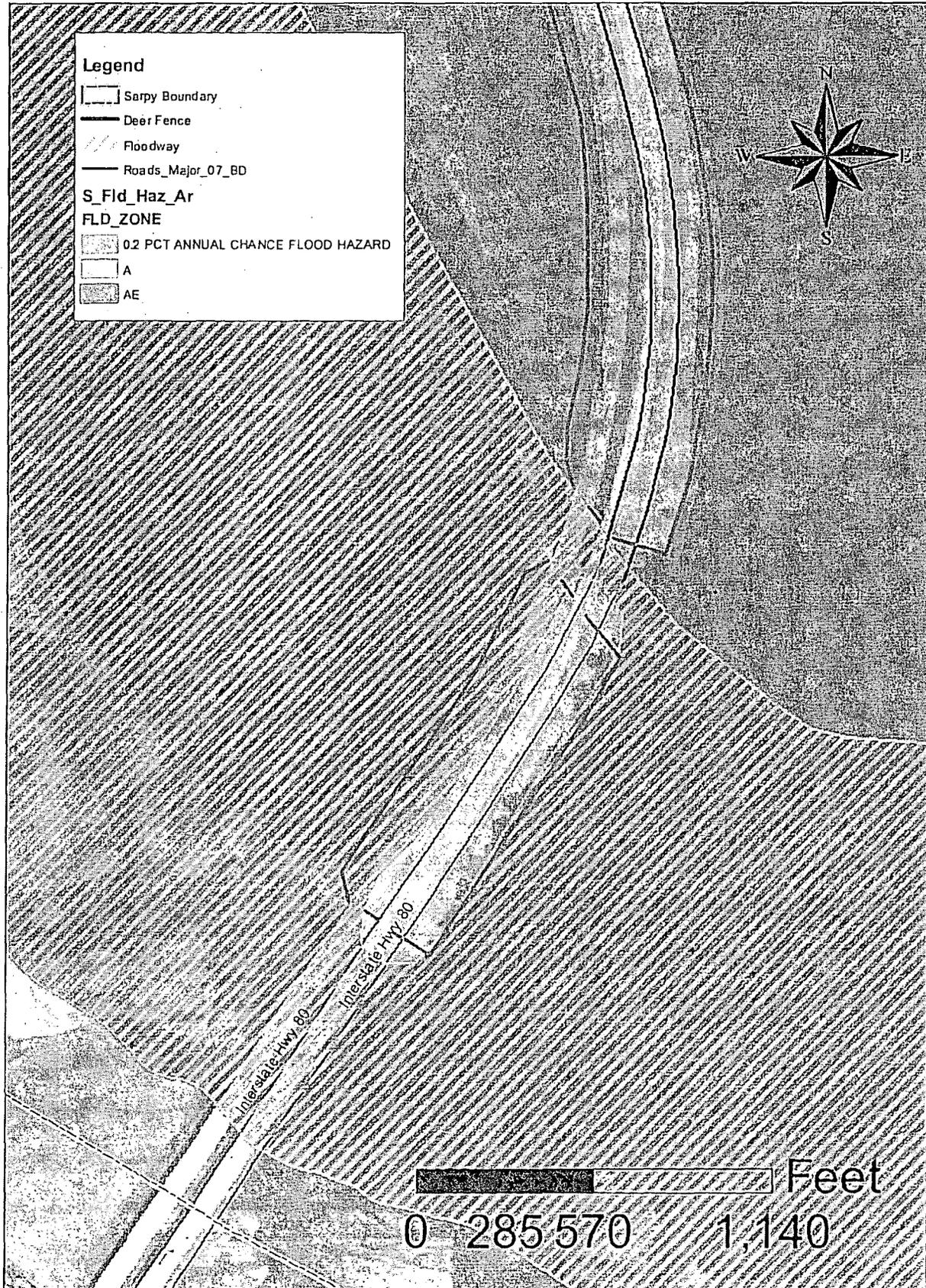




EXHIBIT 'A'

Sarpy County Board of Commissioners Report

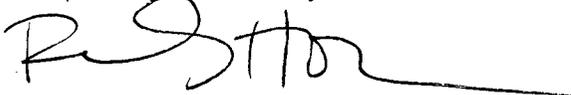
County Board Meeting Date: June 29, 2010

Staff Report Prepared: June 21, 2010

Subject	Type	By
Floodplain Development Permit for Nebraska Department of Roads Platte River Deer Fence along Interstate 80.	Resolution	Rebecca Horner, AICP Planning Director

- Request
 - The applicant requests to place an eight foot high woven wire wildlife fence. The fence will follow the alignment of the current right of way fence, which it replaces. The specific work is more completely described in the January 2010 letter from the Nebraska Department of Roads.
 - The Nebraska Department of Roads provided a Certification and Compliance, signed by a professional civil engineer, stating there is no-rise in the floodway and no increase in the base flood heights more than one foot at any location in the floodplain or flood fringe.
- Comprehensive Development Plan
 - The Sarpy County Development Structure Plan indicates this area as Interstate Right of Way.
- Natural Resources
 - The Natural Resources District indicated the woven wire fence could capture debris during a flood event and recommends that woven wire fences not be used in the floodway. Their comments are attached.
 - Sarpy County Planning Department forwarded the Natural Resources District comments to the Nebraska Department of Roads. The Nebraska Department of Roads responded to the NRD concerns on May 17, 2010 indicating that there is no evidence that woven wire fencing would cause an obstruction in the flow or rise in base flood elevation.
- Zoning
 - The Floodplain District Regulations state that only uses having low flood-damage potential and not obstructing flood flows shall be permitted within the Floodway District.
 - Wire fences or other appurtenances may be constructed which would not constitute an obstruction or debris-catching obstacle to the passage of flood waters.
 - The Natural Resources District believes the request is not in conformance with the Floodplain District Regulations because they believe the woven wire fencing will constitute an obstruction and a debris-catching obstacle to the passage of flood waters.
- Recommendation
 - Staff recommends the Sarpy County Board of Commissioners require the Nebraska Department of Roads to revise the fencing type to be consistent with fencing that the Natural Resources believes will not be an obstruction and debris-catching obstacle to the passage of flood waters.

Respectfully submitted by:



Rebecca Horner, AICP
Planning Director

*Certification and Compliance
Floodplain and Floodway
Regulations*

Structure No. Sections 3 & 9 T12N R10E Project No. 80-9(27)
County Sarpy Control No. 22244
Project Name Platte River Deer Fence S 3 & 9 T 12 N R 10 E
Stream Platte River and Overflow

F.E.M.A. Community - Name Sarpy County, Nebraska
Panel No. 31153C 0145G
Effective Date December 2, 2005

TYPE OF STRUCTURE

Bridge Concrete Box Culvert
 Other _____

TYPE OF IMPROVEMENT

Modify Existing Replace Existing
 Other Construct wildlife fence

Grade Change: Yes No N/A

Other _____

THE FOLLOWING IS HEREBY CERTIFIED

- Floodplain (without Designated Floodway) or Flood Fringe
Proposed construction will not increase the base
(100 year) flood heights more than one foot at
any location.
- Designated Floodway
Proposed construction will result in no rise along
the base (100 year) floodway water surface profile.

Signature *Robert A. Carnazzo*
Roadway Design Division Hydraulics Unit

Registration Number E-9362
Date 01-05-10



*Certification and Compliance
Floodplain and Floodway
Regulations*

Structure No. Section 3 T12N R10E Project No. 80-9(27)
County Sarpy Control No. 22244
Project Name Platte River Deer Fence S 3 T 12 N R 10 E
Stream Platte River and Overflow

F.E.M.A. Community - Name Sarpy County, Nebraska
Panel No. 31153C 0145G
Effective Date December 2, 2005

TYPE OF STRUCTURE

Bridge Concrete Box Culvert
 Other _____

TYPE OF IMPROVEMENT

Modify Existing Replace Existing
 Other Construct wildlife fence

Grade Change: Yes No N/A

Other _____

THE FOLLOWING IS HEREBY CERTIFIED

Floodplain (without Designated Floodway) or Flood Fringe
Proposed construction will not increase the base
(100 year) flood heights more than one foot at
any location.

Designated Floodway
Proposed construction will result in no rise along
the base (100 year) floodway water surface profile.

Signature *Robert A. Carnazzo*
Roadway Design Division Hydraulics Unit

Registration Number E-9362
Date 01-05-10



*Certification and Compliance
Floodplain and Floodway
Regulations*

Structure No. Multiple Sections Project No. 80-9(27)
County Sarpy Control No. 22244
Project Name Platte River Deer Fence S 4 T 12 N R 10 E
Stream Platte River and Overflow S 28 & 33 T 13 N R 10 E

F.E.M.A. Community - Name Sarpy County, Nebraska
Panel No. 31153C 0145G
Effective Date December 2, 2005

TYPE OF STRUCTURE

Bridge Concrete Box Culvert
 Other No Structure

TYPE OF IMPROVEMENT

Modify Existing Replace Existing
 Other Construct wildlife fence

Grade Change: Yes No N/A

Other _____

THE FOLLOWING IS HEREBY CERTIFIED

Floodplain (without Designated Floodway) or Flood Fringe
Proposed construction will not increase the base
(100 year) flood heights more than one foot at
any location.

Designated Floodway
Proposed construction will result in no rise along
the base (100 year) floodway water surface profile.

Signature *Robert A. Carnazzo*
Roadway Design Division Hydraulics Unit

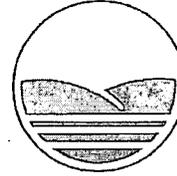
Registration Number E-9362
Date 01-05-10



June 3, 2010

Rebecca Horner, Director
Sarpy County Planning Department
1210 Golden Gate Drive
Papillion, NE 68046

PAPPIO-MISSOURI RIVER
NATURAL
RESOURCES
DISTRICT



8901 S. 154th Street
Omaha, NE 68138-3621
402-444-6222
www.papionrd.org

RE: Nebraska Department of Roads Platte River Deer Fence Application for Floodplain Development

Dear Ms. Horner:

The District received information regarding the proposed construction of a wildlife fence along Interstate 80 from the Platte River to Pflug Road in Sarpy County, Nebraska. According to the Flood Insurance Rate Map for Sarpy County, Panels 31153C 0145 G and 31153C 0150 G, effective December 2, 2005, a portion of the project is located in the Zone AE floodway and Zone AE floodway fringe of the Platte River. The District previously provided comments on the project on February 23, 2010.

In a letter dated May 13, 2010, Nebraska Department of Roads stated that there is no evidence that a woven wire fence would cause an obstruction of flow or a rise in base flood elevation. The District discourages the use of woven wire fencing in the floodway due to the potential of the fence to capture debris during a flood event.

If you have any questions or concerns, please contact me at 444-6222 or at llaster@papionrd.org.

Sincerely,

Lori Ann Laster, CFM
Stormwater Management Engineer

Cc: Marlin Petermann, Amanda Grint, P-MRNRD

Platte River Deer Fence

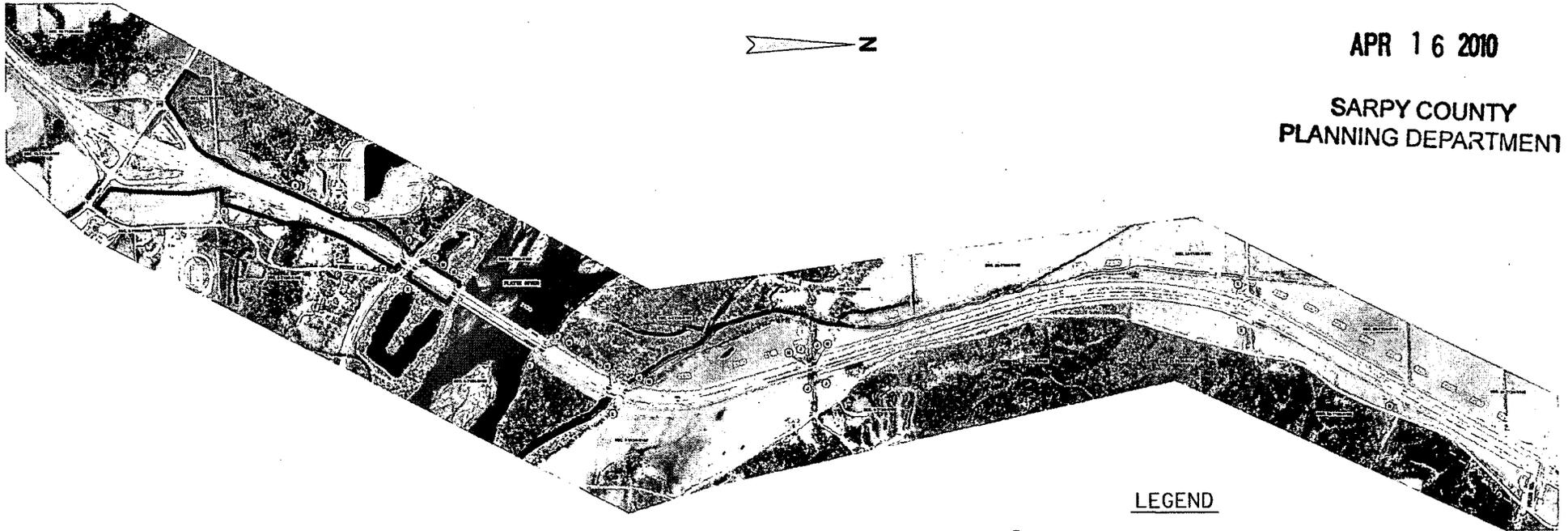
C.N. 22244
IM 80-9(27)

PRELIMINARY PLAN
NOT FINAL - SUBJECT TO CHANGE



APR 16 2010

SARPY COUNTY
PLANNING DEPARTMENT



LEGEND

- (X) EARTHEN EXIT RAMP
- (J) JUMP OUT
- (M) MEDIAN JUMP OUT
- (D) DITCH CROSSING
- WOVEN WIRE
- ELECTROBRAID

NDOR

Nebraska
Department of Roads

ADDITIONAL INFORMATION

SARPY COUNTY BOARD OF COMMISSIONERS

JUNE 29, 2010

FLOOD PLAIN DEVELOPMENT PERMIT

NEBRASKA DEPARTMENT OF ROADS

Rebecca Horner

From: Ringenberg, Tony [Tony.Ringenberg@nebraska.gov]
Sent: Thursday, June 17, 2010 9:02 AM
To: Rebecca Horner
Cc: Jurgens, Jason; Donahoo, Kevin; Dittmer, Dillon
Subject: Floodplain Permit Application: Platte River Deer Fence

Rebecca,

After discussing the fence design again with our design engineers, the Department of Roads (NDOR) stands behind the certification that the Platte River Deer Fence project meets the regulatory requirements for floodplain management. We understand that the NRD has concerns with our woven wire design of the fence, but as stated in the May 13, 2010 letter from the NDOR Roadway Design Engineer, sent to your office, any amount debris caught in the fence will not cause a rise in the base flood elevation. Therefore, NDOR does not have an alternative to the design sent in the floodplain permit application. Please schedule this to the County Board for their decision at your convenience.

If you have any questions or further concerns, please contact me. Thanks.

Tony Ringenberg

Environmental Biologist
Nebraska Department of Roads
tony.ringenberg@nebraska.gov
(402) 479-3683





Dave Heineman
Governor

STATE OF NEBRASKA

DEPARTMENT OF ROADS

Monty W. Fredrickson, P.E., Acting Director

1500 Highway 2 • PO Box 94759 • Lincoln NE 68509-4759

Phone (402) 471-4567 • FAX (402) 479-4325 • www.transportation.nebraska.gov

11 January 2010

FPD 10-0002

Rebecca Horner
Planning Director
1261 Golden Gate Drive, Suite 2E
Papillion NE 68046

RE: Platte River Deer Fence
Project No. 80-9(27)
Control No. 22244

Dear Ms. Horner:

The Nebraska Department of Roads (NDOR) is requesting a floodplain permit for construction of the proposed improvement project located on the current Interstate 80 (I-80) alignment. The project specifically occurs between I-80 reference post (R.P.) 426+26 in Cass County and 430+00 in Sarpy County (Reference Project Location Map). Please review project location in Sarpy County.

The proposed project consists of constructing an eight (8) foot high wildlife fence. The fence will closely follow the alignment of the current right of way fence, which it replaces. There will be limited embankment work at approximately one-half mile intervals in order to create earthen ramp exits for any wildlife that may have accessed the roadway. Project work will consist of no guardrail, shoulder, or culvert work. Pavement work may occur at the fence termini, to allow for inlay of electrified mats into the pavement. No fence will cross a stream that conveys flood water; fence at such streams tie into the highway bridge embankment. Where the fence crosses minor drainages, electrified "dip poles" that consist of charged braided rope to prevent wildlife access through the ditch will be installed. During a flood the poles are free to move with the rising water and not collect debris. The project will have minimal impact on "Zone A" floodplains that it parallels or crosses. The fence is constructed of woven wire which will not impede floodwater and also have little potential to collect debris along the edges of the floodplain.

Attached is a location map, a current FEMA FIRM map, NDOR Floodplain/Floodway Development Permit Application, a copy of the Certification of Compliance Application, and a report by NDOR Hydraulic Engineer for your review and approval.

Please review and return one copy each Floodplain/Floodway Development Permit/Application to me. If you have any questions concerning the project described above and/or the attached information, please call me at (402) 479-4418.

Respectfully Submitted,

NEBRASKA DEPARTMENT OF ROADS

Jason A. Jurgens
Manager, Environmental Permits Unit

Attachments
JAJ/dld
22244- Floodplain Application Letter



Dave Heineman
Governor

STATE OF NEBRASKA

DEPARTMENT OF ROADS

Monty W. Fredrickson, P.E., Director - State Engineer
1500 Highway 2 • PO Box 94759 • Lincoln NE 68509-4759
Phone (402) 471-4567 • FAX (402) 479-4325 • www.transportation.nebraska.gov

May 13, 2010

Rebecca Horner, Director
Sarpy County Director of Planning
1210 Golden Gate Drive
Papillion, NE 68046

MAY 17 2010

SARPY COUNTY
PLANNING DEPARTMENT

Re: Floodplain Permit Application: Platte River Deer Fence

Dear Ms. Horner:

The Nebraska Department of Roads (NDOR) is supplying the following information to help the County Board fully understand the design of the deer fence and to issues the Department considered when certifying that this project meets regulatory requirements for flood plain management. It is hoped that this additional information will alleviate concerns about the use of a woven wire fence in the floodplain.

The attached aerial photography sheets, indicating the locations for placement of the fence, show that the fence is adjacent to the roadway embankment and does not cross bridge or culvert openings in the floodplain. The new roadway and embankment are above the base flood elevations. The roadway and the adjacent fence are not an obstruction to the conveyance of floodwaters and will not cause any rise in base flood elevation for the entire length of the fence. Debris in the fence, for its entire length, will not impact the base flood elevations because this event will not impact the available waterway opening.

In this project NDOR has implemented the latest research for wildlife crossings and fencing. This research has led to the fence design that is proposed for this area. The Department has certified that this project meets the regulatory requirements for floodplain management. It is the opinion of the Pappio-Missouri NRD that woven wire fencing should not be used in the floodway, but there is certainly no evidence that it would cause any obstruction of flow or rise in base flood elevation.

Please advise if you need further information to assist the County Board in their decision.

Sincerely,

Kevin Donahoo, P.E. for Jim Knott
James J. Knott, P.E.
Roadway Design Engineer

JK:ss

Attachment

cc: Kevin Donahoo, NDOR
Jason Jurgens, NDOR
Tony Ringenberg, NDOR

Nebraska Department of Roads

Floodplain/Floodway Development Permit/Application

Permit Application No.
Date: 1/11/10

This form is used for any man-made change to improved or unimproved transportation facility, including, but not limited to, buildings or other structures, mining, dredging, filling, grading, paving, excavation, drilling operations, or storage of equipment or materials.

Nebraska Department of Roads will obtain all other necessary federal, state, or local permits (e.g., Corps of Engineers 404 Permit, Local Levee District, etc.)

1.	Name of Applicant: Nebraska Department of Roads PO Box 94759 Lincoln NE 68509-4759
2.	Type and Use of Development: Wildlife Fence
3.	Specific Location of Development: R.P. 426+23 to 430+00 (Interstate 80)
4.	Complete this section if the proposed development involves the improvement of a structure (i.e., walled and roofed building). Pre-improvement Value of Structure: \$ _____ Cost of Improvement: \$ _____

The following section is to be completed by the community official:

5.	Is the development Substantial Improvement? (see #4)	<input type="checkbox"/> Yes <input type="checkbox"/> No
6.	Is the development in an identified floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If Yes, complete the following:		
a.	Elevation of the Base (100-Year) Flood	_____ Ft. MSL/NGVD 29 or NAVD 88
b.	Elevation/Floodproofing Requirement (if applicable)	_____ Ft. MSL/NGVD 29 or NAVD 88
c.	Is the development in a designed Floodway?	
<input checked="" type="checkbox"/>	Yes New structures for human habitation are prohibited. For any other Floodway development, the NDOR must provide certification by a registered professional engineer that the development would result in no increase along the floodway water surface profile.	
<input type="checkbox"/>	No If a floodway has not been designated, the NDOR may be required to submit hydraulic data demonstrating that the proposed development will not increase flood heights more than one foot at any location.	

If the development is in a floodplain, the following shall apply:

This permit is issued with the condition that the lowest floor (including basement) of a new or substantially improved nonresidential building will be elevated or floodproofed at least one foot above the base flood elevation. NDOR will provide certification by a registered Engineer, Architect, or Land Surveyor that these provisions are met.

All provisions of the _____ Floodplain Management Resolution/Ordinance (Number _____) shall be complied with.
(County or City)

Local Authorizing Official (Name & Title) _____ Date _____
Jasena J. Jones
NDOR Environmental Permits Manager 1/11/10
Date

Project Name: Platte River Deer Fence	
Project No.: NH-80-9(27)	
Control No.: 22244	Structure No.:



Memorandum

Date: January 5, 2010
To: Jason Jurgens, Brian Johnson, Tony Ringenberg
From: Damon Birkby
Thru: Robert Carnazzo; Kevin Donahoo
Subj: Platte River Deer Fence, NH-80-9(27), CN 22244
Floodplain Certification

Platte River Deer Fence is a wildlife fence construction project along Interstate 80 from approximately R.P. 426.26 (Interchange No. 426 – Mahoney State Park) in Cass County to R.P. 430.00 (near Pflug Road) in Sarpy County, Nebraska. The project will construct an eight (8) foot high wildlife fence, with some portions electrified. The fence will generally follow the alignment of the existing right of way fence, which it replaces. There will be some limited embankment work at approximately one-half mile intervals in order to create dirt ramp exits for any deer that may have accessed the roadway. The project will involve no guardrail, shoulder, or culvert work. There may be some pavement work at the fence termini, in order to inlay electrified mats into the pavement. No fence crosses a stream that conveys flood water. Fences at such streams tie into the highway bridge embankment. In areas where the fence crosses a minor drainage way, there will be ditch “dip poles” which are hung from the base of the fence line at depths which vary with the cross-section of the ditch. The poles have electrically charged braided rope to prevent wildlife access through the ditch. During a flooded ditch stage, the poles are free to rotate with the rising water and not snag debris.

The Platte River Deer Fence project has perpendicular and/or parallel encroachments with the Zone A Floodplains at the following locations:

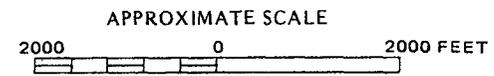
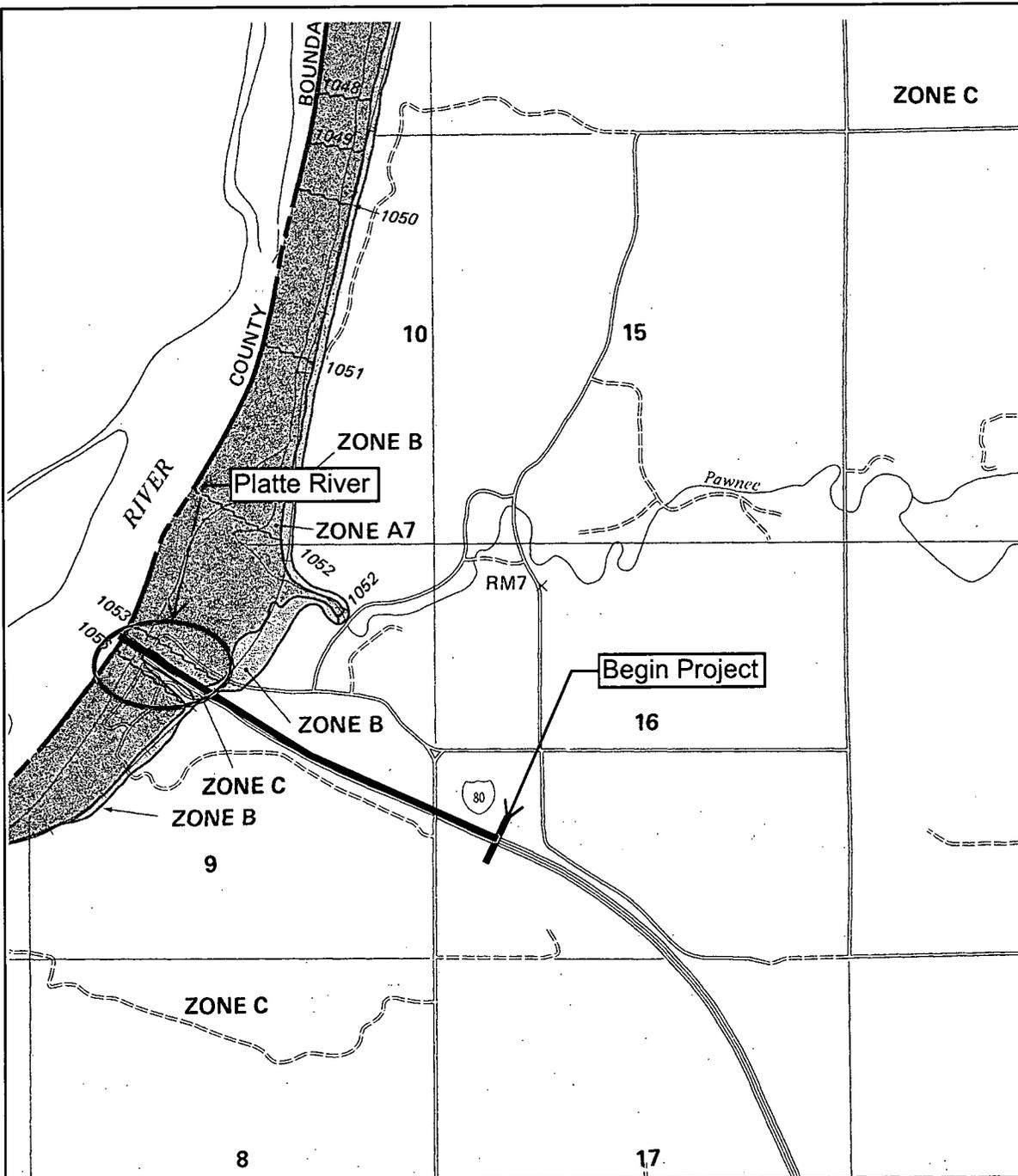
Cass County:

Platte River, Section 9 T12N R10E

Sarpy County:

Platte River, Sections 3, 9 T12N R10E

The Platte River Deer Fence project will have minimal impact on the Zone A floodplains that it parallels or crosses. The fence is constructed of woven wire which will not impede floodwater. The potential for the fence to snag floating debris occurs along the edges of the floodplain and will have minimal impact.



NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

COUNTY OF
CASS,
NEBRASKA
(UNINCORPORATED AREAS)

PANEL 125 OF 200

COMMUNITY-PANEL NUMBER
310407 0125 B

MAP REVISED:
MARCH 4, 1986

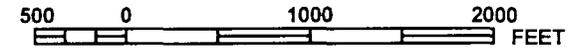


Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT version 2.0. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. Further information about National Flood Insurance Program flood hazard maps is available at <http://msc.fema.gov/>.



MAP SCALE 1" = 1000'



NATIONAL FLOOD INSURANCE PROGRAM
 FIRM

PANEL 0145G

FIRM

FLOOD INSURANCE RATE MAP

SARPY COUNTY,
NEBRASKA
AND INCORPORATED AREAS

PANEL 145 OF 255

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
SARPY COUNTY	310190	0145	G

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

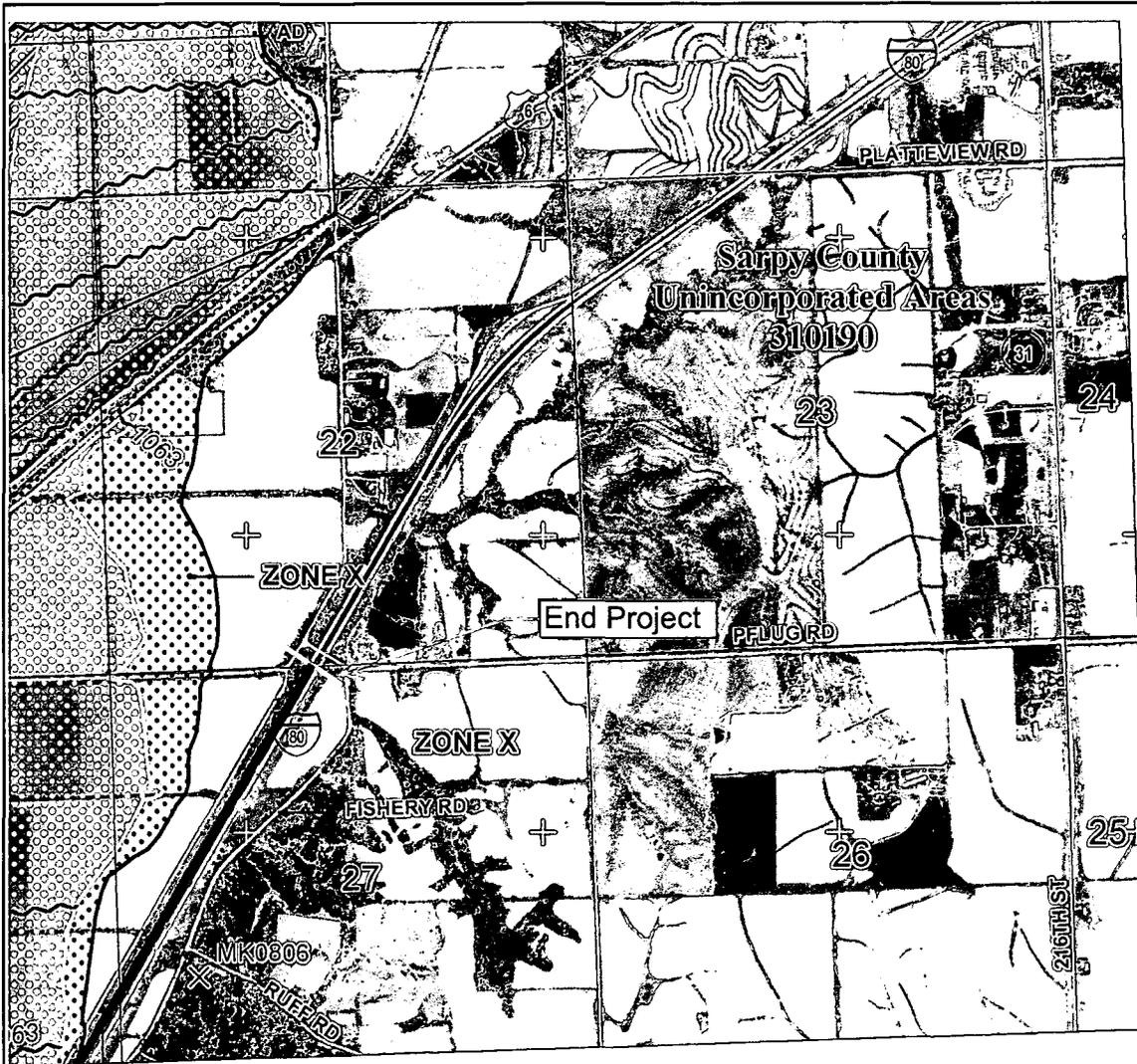


MAP NUMBER
31153C0145G

MAP REVISED
DECEMBER 2, 2005

Federal Emergency Management Agency

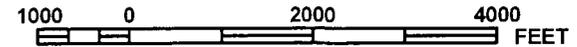
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S 234TH ST



MAP SCALE 1" = 2000'



NATIONAL FLOOD INSURANCE PROGRAM FIRM

PANEL 0150G

FIRM

FLOOD INSURANCE RATE MAP

SARPY COUNTY,
NEBRASKA
AND INCORPORATED AREAS

PANEL 150 OF 255

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
GRETNA, CITY OF	310375	0150	G
SARPY COUNTY	310190	0150	G

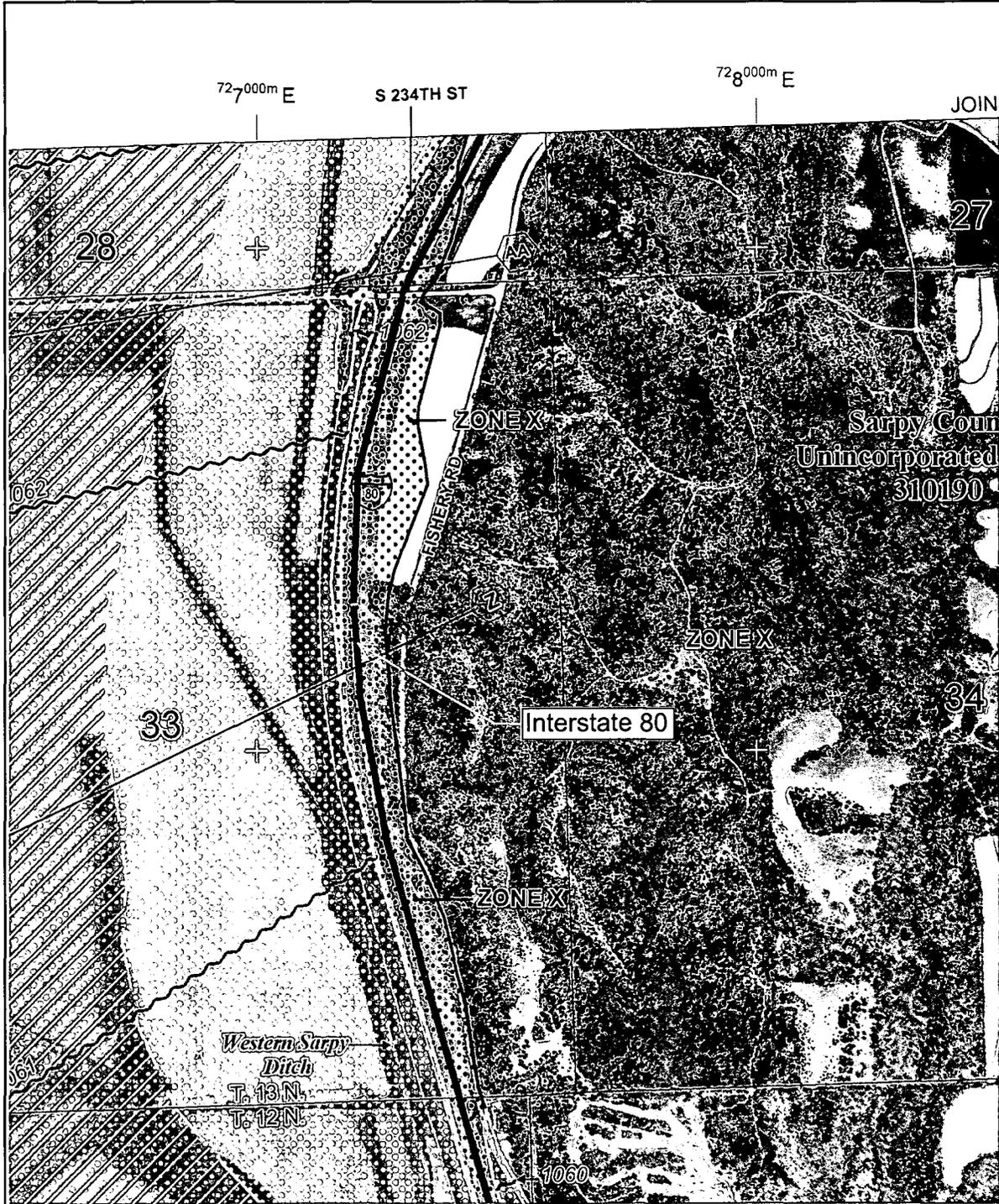
Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



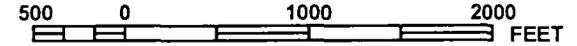
MAP NUMBER
31153C0150G
MAP REVISED
DECEMBER 2, 2005

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT version 2.0. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. Further information about National Flood Insurance Program flood hazard maps is available at <http://msc.fema.gov/>.



MAP SCALE 1" = 1000'



N
F
I
P

PANEL 0145G

FIRM

FLOOD INSURANCE RATE MAP

**SARPY COUNTY,
NEBRASKA
AND INCORPORATED AREAS**

PANEL 145 OF 255

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
SARPY COUNTY	310190	0145	G

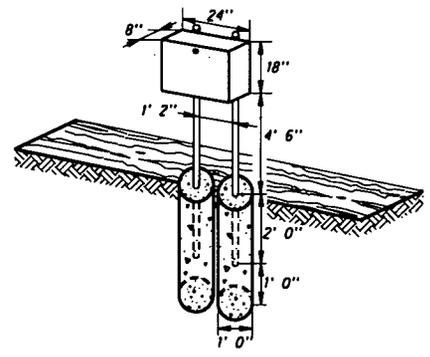
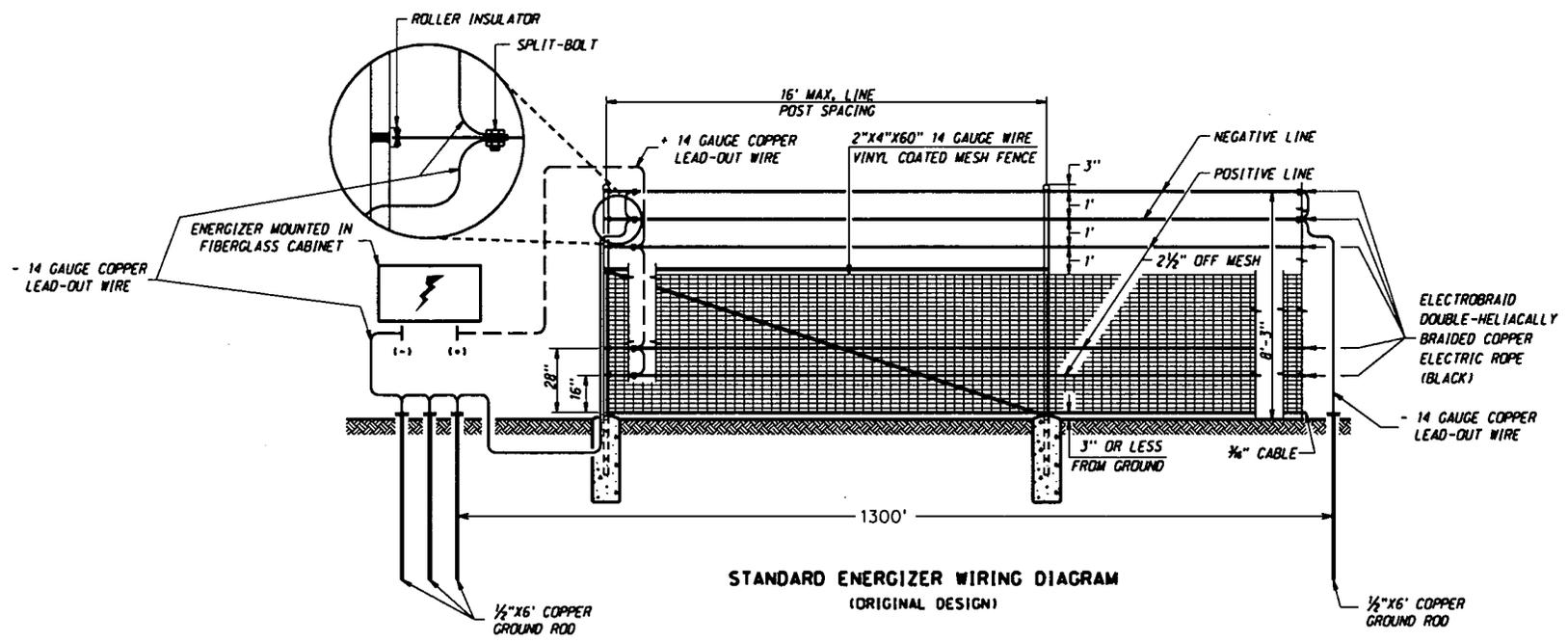
Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.



**MAP NUMBER
31153C0145G
MAP REVISED
DECEMBER 2, 2005**

Federal Emergency Management Agency

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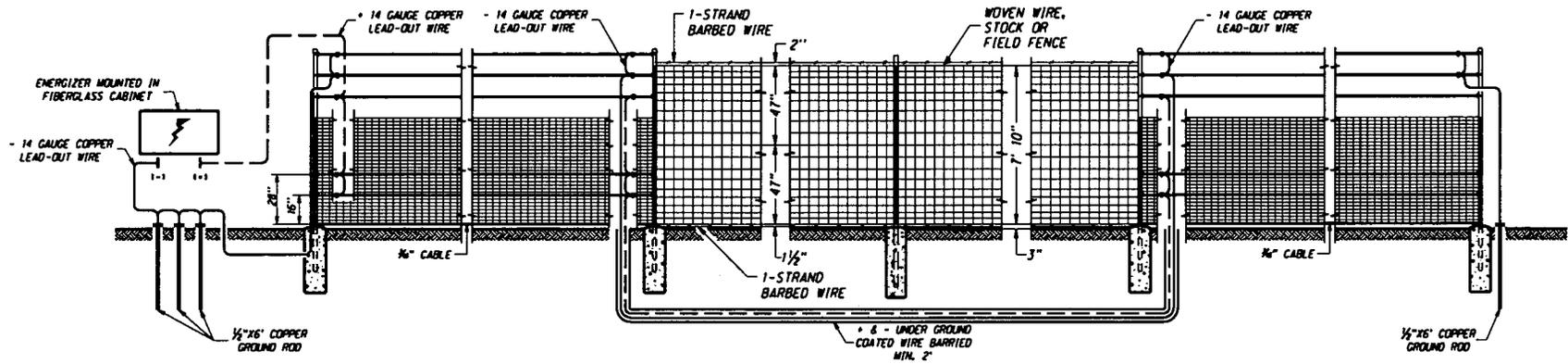


**ELECTROBRAID WILDLIFE
 DEER FENCE DETAILS**
 SHEET 2 OF 6
SPECIAL PLAN ☞

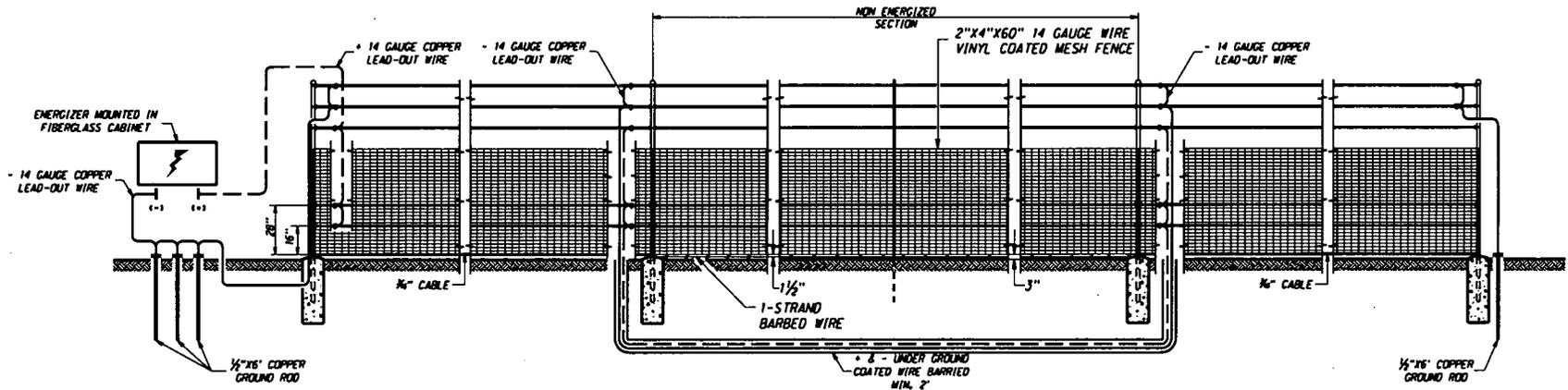
Recovery Design Division

COMPUTER PLOTTED DATE 08/08/08 09:51:55

SARPY COUNTY
 PLANNING DEPARTMENT
 APR 16 2010



OPTION #1
**ELECTROBRAID WILDLIFE DEER FENCE
 TO
 WOVEN WIRE DEER FENCE
 STANDARD ENERGIZER WIRING DIAGRAM
 STATION TO STATION**
 2155+55.29, 191.95' RT. TO 2158+55.29, 191.07' RT.



OPTION #2
**ELECTROBRAID WILDLIFE DEER FENCE
 TO
 NON ENERGIZED DEER FENCE
 STANDARD ENERGIZER WIRING DIAGRAM
 STATION TO STATION**
 2155+55.29, 191.95' RT. TO 2158+55.29, 191.07' RT.



**ELECTROBRAID WILDLIFE
 DEER FENCE DETAILS**
 SHEET 3 OF 6
SPECIAL PLAN Ⓞ

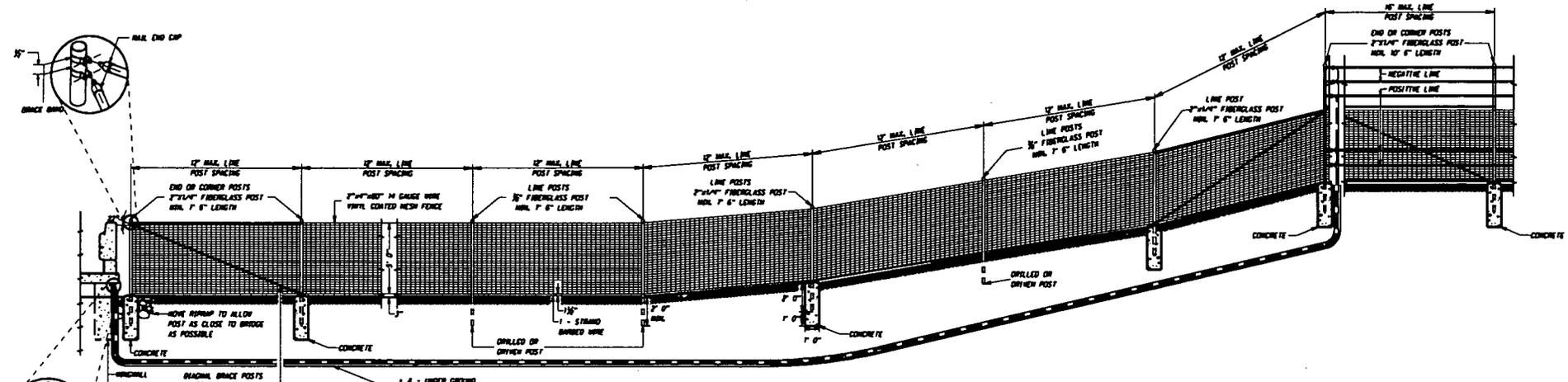
Roadway Design Division

COMPUTER
 DATE 11/15/2009

DATE 11/15/2009
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SARPY COUNTY
 PLANNING DEPARTMENT
 APR 16 2010

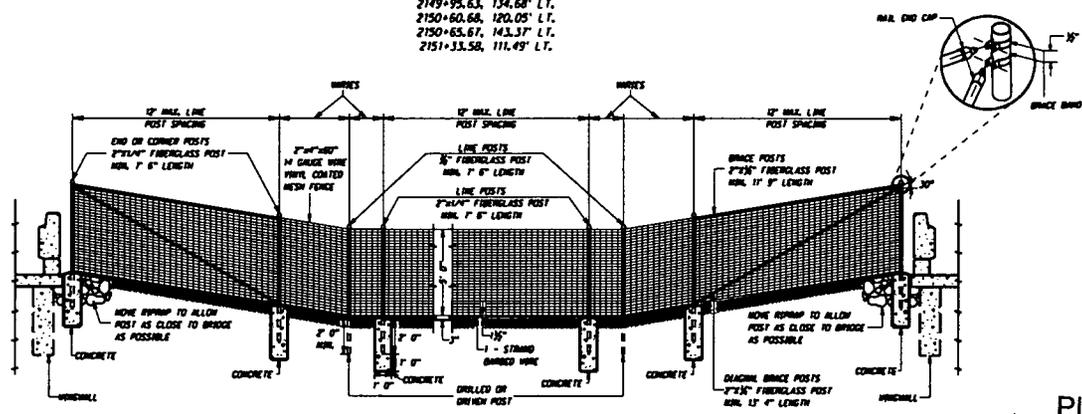
Roadway Design Division



JUMP-OUT DEER FENCE AT BRIDGE ENDS

STATION AND OFFSET

2080+00.35	115.41' L.T.
2149+95.63	134.68' L.T.
2150+60.66	120.05' L.T.
2150+65.67	143.37' L.T.
2151+33.58	111.49' L.T.



MEDIAN JUMP-OUT DEER FENCE AT BRIDGE ENDS

STATION

2079+75.78
2081+95.82
2089+25.92
2105+77.10
2117+97.71
2120+48.45
2150+33.05
2151+03.11

APR 16 2010

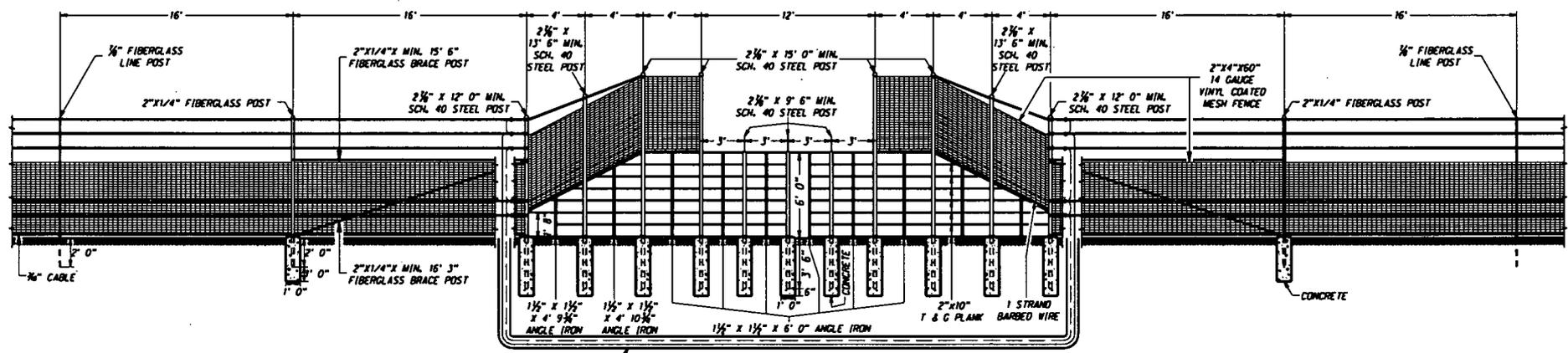
SARPY COUNTY
PLANNING DEPARTMENT

ELECTROBRAID WILDLIFE
DEER FENCE DETAILS
SHEET 4 OF 6
SPECIAL PLAN

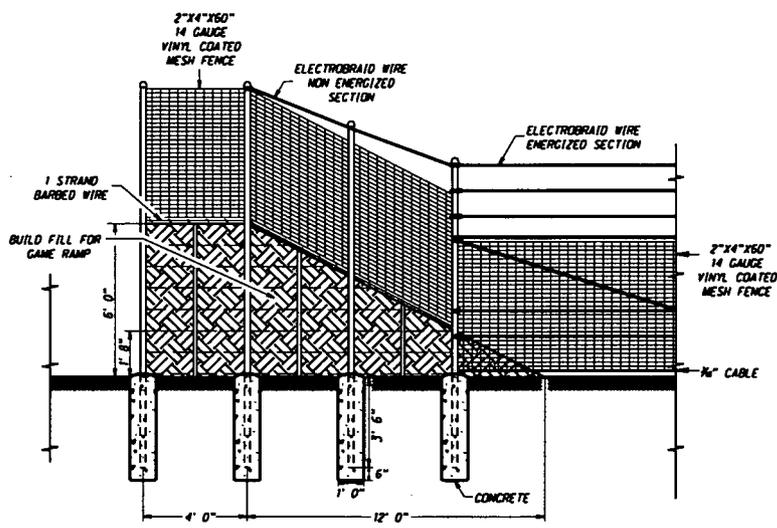


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EARTHEN EXIT RAMP
 (ORIGINAL DESIGN)



EARTHEN EXIT RAMP SIDE VIEW
 (ORIGINAL DESIGN)

APR 16 2010

SARPY COUNTY
 PLANNING DEPARTMENT

ELECTROBRAID WILDLIFE
 DEER FENCE DETAILS

SHEET 5 OF 6

SPECIAL PLAN 

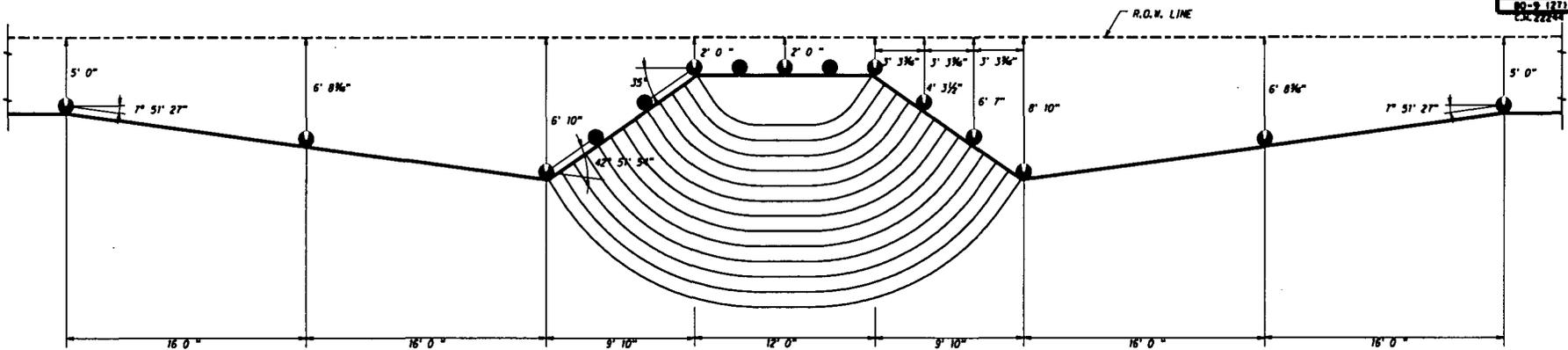


Academy Design Division

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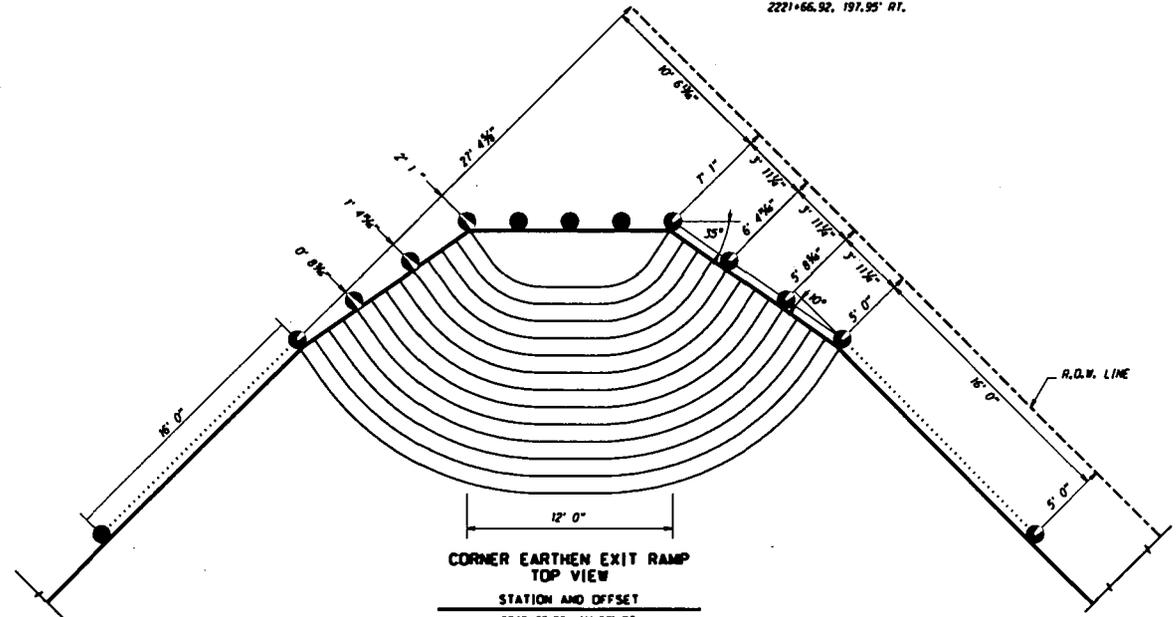
Accuracy Design Division



**INLINE EARTHEN EXIT RAMP
 TOP VIEW**

STATION AND OFFSET

2059+61.62	148.00' LT.
2210+91.05	184.33' LT.
2221+66.92	197.95' RT.



**CORNER EARTHEN EXIT RAMP
 TOP VIEW**

STATION AND OFFSET

2049+82.26	411.96' RT.
2079+21.53	213.71' RT.
2081+74.02	219.77' RT.
2082+36.54	141.29' LT.
2105+77.13	224.59' RT.
2106+43.15	157.61' LT.
2119+88.45	262.33' RT.
2121+80.53	145.01' LT.

APR 16 2010

SARPY COUNTY
 PLANNING DEPARTMENT

ELECTROBRAID WILDLIFE
 DEER FENCE DETAILS

SHEET 6 OF 6

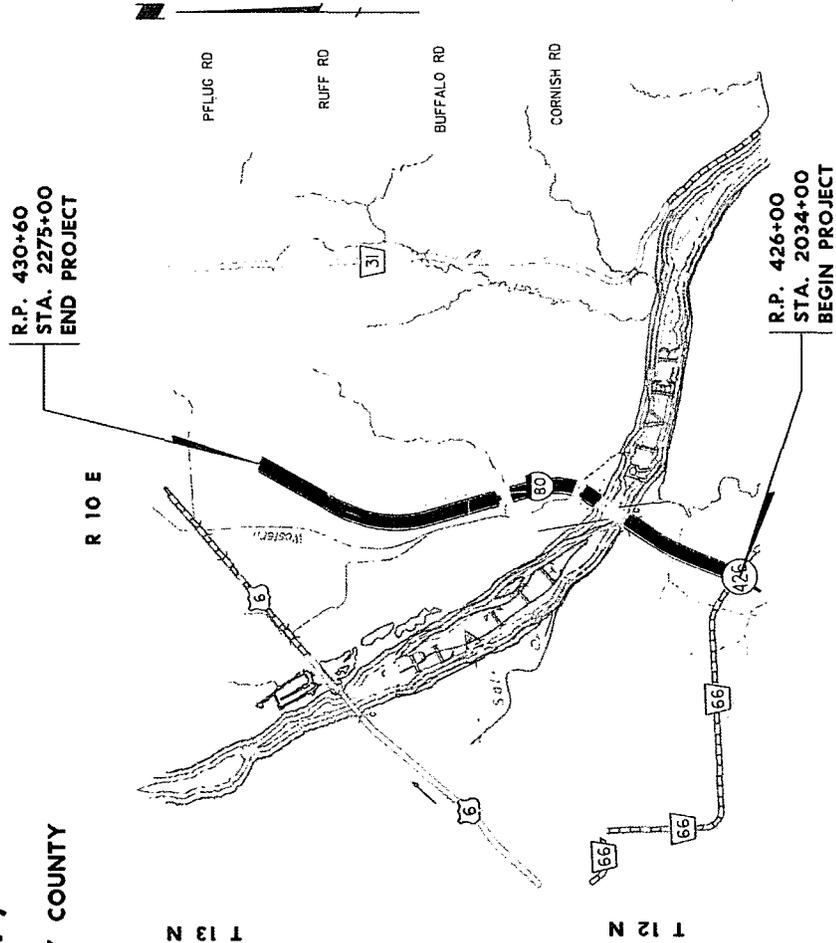


SPECIAL PLAN

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PLATTE RIVER DEER FENCE 80-9(27)

C.N. 22244
CASS/SARPY COUNTY



NDOR
Nebraska
Department of Roads

APR 16 2010

NDOR
Nebraska
Department of Roads

SARPY COUNTY
PLANNING DEPARTMENT

Information Open House Meeting

The Atrium at Nebraska Crossing, 14333 South Highway 31, Gretna, Nebraska
March 9, 2010: 4:00 p.m. – 6:00 p.m.

IM 80-9(27) PLATTE RIVER DEER FENCE Control No. 22244

LOCATION: The project is located on Interstate 80 with construction beginning at the Mahoney Interchange (R.P. 426) and ending at the Pflug Road Bridge (R.P. 430.6), for a distance of 4.6 miles.

PURPOSE AND NEED: The purpose of the project is to provide an exclusionary deer fence which restricts wildlife access to the Interstate. The Federal Highway Administration and NDOR agreed within the Environmental Assessment for the six-lane expansion to build a deer fence east of the Platte River. A review of Nebraska State Patrol Accident Reports between 1998 and 2003 noted that the Deer Vehicle Collisions (DVCs) on the east side of the Platte River were 2.4 hits/mile/year and 4.2 hits/mile/year for the west side. The NDOR determined that the deer fence would additionally be built to the Mahoney Interchange.

A six-month monitoring period occurred between May 2009 and November 2009 after the six-lane expansion of I-80 was completed and wildlife undercrossings were in place beneath the new bridge structures. NDOR maintenance personnel removed 38 carcasses within the project limits and 5 Nebraska State Patrol accident reports were filed.

SCOPE OF WORK: The project will include constructing two types of deer fence: 8' high woven wire fence between the Mahoney Interchange and the Platte River; 8' high Electrobraided Wildlife fence between the Platte River and Pflug Road. Fence will be tied to wildlife undercrossings and exit ramps will be located within the project to allow deer which access the roadway to jump out.

ESTIMATED CONSTRUCTION SCHEDULE: This project is scheduled to start construction in the fall of 2010 and expected to be completed in the spring of 2011.

TRAFFIC COUNT:

Year	2010	2030
ADT	46990	85150
% Trucks	20%	20%

BRIDGES:

BNRR Bridge: Bridge to continue allowing rail and traffic. No modifications for wildlife.
Platte River Bridge: Modified for wildlife undercrossing.
Sarpy Ditch Bridge: Modified for wildlife undercrossing.
Cass/Sarpy Bridge: Modified for wildlife undercrossing
Pflug Road Bridge: No modifications.

ACCOMMODATION OF TRAFFIC: I-80 traffic will not be affected.

RIGHT-OF-WAY: Right-of-Way will not be required along the entire length of the project.

WETLANDS: Several wetland impacts are expected on this project. Impacts will be mitigated by using screw posts to support the fence instead of concrete pedestals.

ESTIMATED COST OF THE PROJECT: \$1.1 Million